## City of Fennimore

1980

"The city on the move!"



City Clerk-Treasurer Zoning Administrator (608) 822-6119 Director of Public Works/ City Engineer (608) 822-6501 Fennimore Utilities Business Office (608) 822-6110

January 26, 2001

Jim Loock, Chief Electric Engineer Public Service Commission 610 N. Whitney Way P.O. Box 7854 Madison, WI 53707-7854

RE:

In the Matter of Filing Plans for Appropriate Inspection and

Maintenance, PSC Rule 113.0607.

Dear Mr. Loock:

Enclosed for filing are 3 copies of Fennimore Municipal Utilities's Preventative Maintenance Plan detailing inspection maintenance schedules, condition rating criteria, corrective action schedules, record keeping procedures and report filing schedules as documented in this rule.

Very truly yours,

Gregory J. Lee

Director of Public Works

City of Fennimore

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**Enclosures** 

RECEIVED

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Electric Division

## PREVENTATIVE MAINTENANCE PLAN

## FENNIMORE MUNICIPAL UTILITIES

FILING DEADLINE FEBRUARY 1, 2001

January 26, 2001

Gregory J. Lee 860 Lincoln Ave Fennimore, WI 53809 (608) 822-6501

**RECEIVED** 

JAN 3 6 2001

Electric Division

This plan was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

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### I. Preventative Maintenance Plan

The PSC 113.0607 rule reads;

Appropriate inspection and maintenance: system reliability.

- (1) PREVENTATIVE MAINTENANCE PLAN. Each utility or other person subject to this chapter, including persons who own electric generating facilities in this state who provide service to utilities with contracts of five years or more, shall develop and have in place its own preventative maintenance plan. This section is applicable to electric generating facilities as set forth at s. 194.491(5)(a)(1), Stats. Each plan shall include, among other things, appropriate inspection, maintenance and replacement cycles where applicable for overhead and underground distribution plant, transmission, generation<sup>1</sup>, and substation facilities.
- (2) CONTENTS OF THE PLAN. (a) *Performance standard*. The Preventative Maintenance Plan shall be designed to ensure high quality, safe, and reliable service, considering: cost, geography, weather, applicable codes, national electric industry practices, sound engineering judgment and experience.
- 1 PSC staff interpretation is that generation applies to individual generators equal to or greater than 50 MW.

### II. Inspection Schedule and Methods:

The purpose of this plan is to maintain or improve the electrical system reliability with the objective of increased municipal loyalty and satisfaction from our constituents. The goals are to meet and exceed the schedules established in this plan.

Exception reporting (inspected equipment not in good condition) will be the method of documentation on all inspection forms.

The scope of this plan is traditional and uses proven maintenance techniques. Unique operating and maintenance philosophies have not been considered. Also, manufacturer defects will be dealt with as they are communicated to this utility.

**EVERY** 

SCHEDULE:	MONTHLY	ANNUAL	5 YEARS
Transmission (≥69Kv and above)		X	X
Substations	X	X	
Distribution (OH & UG)			X

The inspection of Distribution facilities will be by individual substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included with the plan.

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

- 1. <u>IR</u> infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
- 2. <u>RFI</u> Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
- 3. <u>SI</u> structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
- 4. <u>Clearance</u> refers to proper spacing of conductors from objects, trees and other utility cables.
- 5. <u>EC</u> equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

### III. Condition Rating Criteria:

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required normally repair within 12 months
- 3) Priority maintenance required normally repair within 90 days
- 4) Urgent maintenance required report immediately to the utility and repair normally within 1 week

### IV. Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

### V. Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

### VI. Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a letter documenting the percent of inspections achieved compared to the schedule and a description of maintenance achieved within the scheduled time allowance.

### VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE

### **STRUCTURE**

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires
- U Guard/Conduit Condition

### **EQUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
- Capacitors
  - ✓ Fuses Blown
  - ✓ Bushing Condition
  - ✓ Oil Leaks
  - ✓ Tank Bulged
  - ✓ Switches, Oil, Vacuum
  - ✓ Control Conduit/Wiring
  - ✓ Grounding/Bonding
- Switches GOAB, Inline, Disconnect
  - ✓ Insulator Condition
  - ✓ Operating Handle/Locks
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number
- Cutouts
  - ✓ Insulator Condition
  - ✓ Fuse Size Tag

### VII DISTRIBUTION – OVERHEAD INSPECTION GUIDE (con't)

### **EQUIPMENT (CON'T)**

- Arrestor
  - ✓ Insulator Condition
  - ✓ Connections
  - ✓ Ground Lead Disconnection
- Cable Terminators
  - ✓ Insulator Condition
  - ✓ Grounding/Bonding

### **CLEARANCES**

- Ground Line
- Buildings, Bridges, Swimming Pool, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Transmission Lines
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
  - ✓ Clearance From Line
  - ✓ Vines on Poles
  - ✓ Danger Trees

### **INFRARED SCAN**

- Main Three-Phase Feeders
- Priority Overhead Transformer Banks
  - ✓ Bushing Connectors Primary
  - ✓ Bushing Connectors Secondary
  - ✓ General Tank Heating
- Current & Voltage Transformers if Applicable

### RFI CHECK

• OH system with AM radio as each circuit is inspected

OVERHEAD DISTRIBUTION INSPECTION FORM

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Sub

Inspected by

Corrected By Date Item Corrected 1) Good Condition but aging
2) Non-critical Maintenance Required
3) Priority Maintenance Required
4) Urgent Maintenace Required COMMENTS 0) Good Condition Rating Criteria Communication Clearance CLEARANCE Streets, Roads, Alleys Building Clearances Ground Line Clearances Pree Trimming Street Light EQUIPMENT **Terminators** Arresters **Cutouts** Switches Transformer **KFI Check** U'Guard/Conduit Cond Conductor and Ties Customer Equipment Signs, Loc#, Warning STRUCTURE Guy Bond, Insulator Down Guys and Markers Grounds Intact, Molding Pole Steps Soil Conditions Insulators, DE, Pin Crossarm Condition Pole Condition/Leaning MAP AREA LOCATION

### VIII DISTRIBUTION - UNDERGROUND INSPECTION GUIDE

## STRUCTURAL (Exterior & Interior) Transformer, Primary Pedestal, Secondary Pedestal, Switchgear.

- Enclosure Condition
- Level/Leaning
- Security
- Grade/Accessibility (Shrubs, Customer Facilities, Fill/Excavation)
- Numbering
- Voids/Gaps
- Signage Location Number, Warning Sign
- Pad/Vault Condition

### **EQUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
  - ✓ Elbows
  - ✓ Arrestors
  - ✓ Feed-Through
  - ✓ Cable Condition
  - ✓ Secondary Connections
- Primary Pedestals
  - ✓ Elbows
  - ✓ Junction Condition
  - ✓ Grounding/Bonding
- Secondary Pedestals
  - ✓ Secondary Connections
- Switches URD Switchgear
  - ✓ Insulator Condition
  - ✓ Operating Handle Security
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number/Fuse Size & Number

### INFRARED SCAN and RFI CHECK

- Main Three-Phase Feeders (Risers & Switchgear)
- Priority URD Transformer Banks
  - ✓ Bushing Connectors Primary
  - ✓ Bushing Connectors Secondary
  - ✓ General Tank Heating

1		Corrected By	ļ																
		Date Item Corrected																	
Sub Circuit_	COMMENTS	Rating Criteria  0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required																	
26	IR / RFI Scan	Priority URD Transformers, Bushings and Tank heating																	
cted b	IR/R	Main Three Phase Feeders, Risers & Switchgear																	
Inspected by		Switches, Signage, Insulators, Security, inkage, Ground, Bonds																	
	LN.	Secondary Pedestals, Connections																	
	EQUIPMENT	Primary Pedestals Elbows, Brounding, Bonds, Junction cond.																	
≀M Date	EQ	ransformers, Leaks, Bushings, sounding, Bonds, Elbows, Arrestors, Cable ond, Connections																	
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UNDERGROUND DISTRIBUTION INSPECTION FORM Date	MAP AREA	EQUIPMENT	LOCATION																

### IX SUBSTATION - MONTHLY INSPECTION GUIDE

### TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Oil leaks
  - ✓ Main tank
  - ✓ Sample valves
  - ✓ Radiators
- Radiator bank
  - √ warm on top, cool at bottom
- Tank pressure
- Tank oil level
- Temperature gauge
- Cooling fans

### TRANSFORMER LTC or VOLTAGE REGULATORS:

- Tank oil level
- Drag hand positions
- Cabinet light
- Operation count
- Tank pressure
- Cabinet heater
- Cabinet contamination

### TRANSMISSION CIRCUIT BREAKERS:

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Properly labeled
  - ✓ Aligned properly
- Handles grounded
- Emergency trip button
- Air / Oil compressors
- Air / Oil pressure gauge
- Spring operated mechanism
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

### IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

### FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Labeled properly
  - ✓ Aligned properly
  - √ Handles grounded
- Emergency trip button
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

### HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
  - ✓ Chips or cracks
  - ✓ Rust or dirt
- Bird nests
- Potential transformers bushings
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Cable terminators
  - ✓ Leaking fluid
  - ✓ Cracks or chips

### MANUAL SWITCHES:

- Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
  - ✓ Cracks or chips
  - ✓ Rust or dirt

### MOTOR OPERATED SWITCHES:

- OPEN/CLOSED indicator
- Properly labeled
- Cabinet heater
- Operations counter

### IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

### **CONTROL HOUSE/MISCELLANEOUS:**

- Clock displays proper time
- AC/DC load center breakers
- Room temperature
- Rodents
- Panels labeled properly
- Panel lights
- Annunciator panel
- Panel meters
- SCADA system RTU
- SCADA alarms
- Position indicators agree
- Relay target information
- Emergency contact directory & dial tone for phone
- Safety Equipment

### **BATTERY**:

- Liquid levels
- Proper float voltage on charger and battery
- Specific gravity in pilot cell
- Personal Protective Equipment
- Connection corrosion
- Leaking cells
- Dated solution in eyewash station

### YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

MONTHL	Y	SUBSTAT	10	N II	<b>NS</b> F	PEC		N FORM	
INSPECTED BY:									
DATE:									
SUBSTATION:									
TRANSFORMER MAIN TANK		RATING:	0	1	2	3	4	(Circle One)	
inspected	x		CO	MMEN	ITS			DATE CORRECTED	CORRECTED BY
Oil in Bushings									
Bushing and Arrestor									
Oil Leaks									
Main Tank									
Sample Valves									
Radiators									
Radiator Bank									
Tank Pressure									
Tank Oil Level									
Temperature Gauge									
Cooling Fans									
TRANSFORMER LTC or VOLTAGE REGULATORS		RATING:	0	1	2	3	4	(Circle One)	
Tank Oil Level									
Drag Hand Positions									
Cabinet Light									
Operation Count	<u> </u>								
Tank Pressure									
Cabinet Heater							<del></del>		
Cabinet Contamination									
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INSPECTED BY:									
DATE:									
SUBSTATION:									
HIGH VOLTAGE CIRCUIT BREAKER / CIRCUIT SWITCHER	R	RATING:	0	1	2	3	4	(Circle One)	
inspected X			COI	MMEN	ITS			DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator									
CHARGED/DISCHARGED Indicator									
Cabinet Light									
Cabinet Heater		•							
Operations Counter									
Bushings and Supports									
Line and Load Side Disconnect Switches									
Handles Grounded									
Emergency Trip Button									
Air Compressors - Air / Oil									
Air Pressure Gauge - Air / Oil									
Spring Operated Mechanism									
Oil Level Gauge									
Tank Oil Leaks				····					
Reset Switch									
Cabinet Contamination									
Vents Clean									
Gas Pressures for GCBs									
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INSPECTED BY:							
DATE:	<del> </del>						
SUBSTATION:							
	_						
FEEDER CIRCUIT BREAKER / RECLOSER	_	RATING: 0	1 2	3	4	(Circle One)	
inspected	x	COM	MENTS			DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator							
CHARGED/DISCHARGED Indicator							
Cabinet Light							
Cabinet Heater							
Operations Counter							
Bushings and Supports							
Line and Load Side Disconnect Switches							
Emergency Trip Button	$\Box$						
Oil Level Gauge						-	
Tank Oil Leaks							ļ.,
Reset Switch						<b> </b>	
Cabinet Contamination						-	
Vents Clean	$\square$						
Gas Pressures for GCBs	1						
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MONTHLY SU	BS	TATIC	N	INS	PE	CT	101	FORM	
INSPECTED BY:									
DATE:					-				
SUBSTATION:									
					7				<del> </del>
HIGH & LOW VOLTAGE BUSS WORK		RATING:	0	1	2	3	4	(Circle One)	
			COM	MEN	ITS			DATE	CORRECTED
inspected X								CORRECTED	BY
Bushing, Insulator, Arrestor, and Supports	<del> </del>								
Bird Nests	<u> </u>								
Transformer Bushings									
Cable Terminators									
MANUAL SWITCHES		RATING:	0	1	2	3	4	(Circle One)	
Properly Labeled									
Ground Connections				*					
Positioning and Alignment									
Bushings and Supports				······································					
MOTOR OPERATED SWITCHES		RATING:	0	1	2	3	4	(Circle One)	
OPEN/CLOSED Indicator									
Proper Labeling						-			
Cabinet Heater				-					
Operations Counter		· · · · · · · · · · · · · · · · · · ·					171-1.		***************************************
locking criteria									

MONTHLY	SU	BSTATI	ON	IN	SP	EC.	TIO	N FORM	
NSPECTED BY:									
DATE:									
SUBSTATION:									
CONTROL HOUSE/MISCELLANEOUS		RATING:	0	1	2	3	4	(Circle One)	
inspected	x		CON	MEN	TS			DATE CORRECTED	CORRECTED BY
Clock Displays Proper Time									
AC/DC Load Center Breakers							<del></del>		
Room Temperature									
Rodents									
Panels Labeled Properly									
Panel Lights									
Annunciator Panel									
Panel Meters									
SCADA System RTU									
SCADA Alarms									
Position Indicators Agree									
Relay Target Information									
Emergency Contact Directory & Dialtone for Phone									
Safety Equipment									
BATTERY	_ <b></b>	RATING:	0	1	2	3	4	(Circle One)	
Liquid Levels									
Proper Float Voltage on Charger & Battery									
Specific Gravity in Pilot Cell									
Personal Protective Equipment									
Connection Corrosion									
Leaking Cells									
Dated Solution in Eyewash Station									
	$\prod$								
YARD & FENCE	<u> </u>	RATING:	0	1	2	3	4	(Circle One)	
Fire Extinguisher Charged									
Fence Ground Connections									
Fence Secured									
Security and Emergency Lights									
Site Base and Grade									
Standing Water									
Warning Signs									
MEUW - Preventative Maintenance Plan Forma	af								17

### **X** Substation - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Perform oil and DGA analysis
- Battery
  - ✓ Intercell strap resistance
  - ✓ Individual cell voltages
  - ✓ Cell specific gravity
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels
- IR / RFI scans and checks

### 19

# ANNUAL SUBSTATION INSPECTION FORM

Substation\_\_

\_Inspected by \_\_

Date\_

		SUBST	SUBSTATION INSPECTION CRITERIA	ON CRITE	RIA		COMMENTS	MAINTENANCE COMPLETED	NCE ED
EQUIPMENT LISTING	Check equipment for level	Check condition of concrete pads Perform oil and DGA analysis	Battery checks - Intercell strap resistance, Individual cell voltages, Cell specific gravity	Nameplate legible  Equipment paint condition	Proper identification labels	IR / RFI scans and checks	Rating Criteria  0) Good Condition  1) Good Condition but aging  2) Non-critical Maintenance Required  3) Priority Maintenance Required  4) Urgent Maintenace Required	Date Item Corrected	Corrected By
Transformer	<del> </del>	-							
LTC or regulators									
High Voltage Breaker									
Feeder CBs / Reclosers									
Switches									
				-					
Control house battery									
Transmission line RFI									

### XI TRANSMISSION - ANNUAL INSPECTION GUIDE

### **STRUCTURE**

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires

### **EQUIPMENT**

- Switches GOAB, Disconnect
  - ✓ Insulator Condition
  - ✓ Operating Handle/Locks
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number
- Arrestor
  - ✓ Insulator Condition
  - ✓ Connections

### **CLEARANCES**

- Ground Line
- Buildings, Bridges, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
  - ✓ Clearance From Line
  - ✓ Vines on Poles
  - ✓ Danger Trees

### XI TRANSMISSION - ANNUAL INSPECTION GUIDE (con't)

### RFI CHECK

- Splices
- Connectors
- Dead Ends
- Switches
- Structures

### XII TRANSMISSION – 5 YEAR INSPECTION GUIDE

### <u>IR SCAN</u>

- Splices
- Connectors
- Dead Ends
- Switches

# ANNUAL TRANSMISSION INSPECTION FORM

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Inspected by\_\_

Date\_

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	Corrected					-										
	D <b>ate</b> Item Corrected															
COMMENTS	Rating Criteria  0) Good Condition  1) Good Condition but aging  2) Non-critical Maintenance Required  3) Priority Maintenance Required  4) Urgent Maintenace Required															
ш	Streets, Roads, Alleys Communication Clearance													 		
ANC	Building Clearances		-		<u> </u>		_				_	 <b></b>		 	$\square$	
CLEARANCE		$\Box$		 	ļ				ļ			 	 	 		
딩	Ground Line Clearances				ļ		_					 	 	 		
	Tree Trimming															
EQUIPMENT	Arresters															
EgUI	Switches															
	КЕІ СРеск															
	Conductor and Ties															
	Customer Equipment															
	Signs, Loc#, Warning															
R H	Guy Bond, Insulator															
15	Down Guys and Markers															
	Grounds Intact, Molding															
STRUCTURE	Pole Steps															
	Soil Conditions															
	Insulators, DE, Pin															
	Crossarm Condition															
	Pole Condition/Leaning															
MAP AREA	LOCATION															